

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-18 (Canceled).

Claim 19 (Currently Amended): An insulated conductor for a high-voltage winding in an electric machine, comprising:

~~one or more strands~~ at least one uninsulated strand and a plurality of strands each being insulated from one another;

an inner conductive layer that surrounds and contacts said ~~one or more~~ plurality of strands said at least one uninsulated strand;

an insulating layer that surrounds said inner conductive layer; and

an outermost conductive layer that surrounds said insulating layer, wherein:

a resistivity of the outermost conductive layer being in an inclusive range of 10 through 500 ohm*cm.

Claim 20 (Previously Presented): An insulated conductor as claimed in claim 19, wherein:

the outermost conductive layer is grounded at at least two different points.

Claim 21 (Currently Amended): An insulated conductor as claimed in claim 20, wherein:

said outermost conductive layer having a resistivity being lower than that of the insulating layer but higher than that of a material that comprises said ~~one or more~~ plurality of strands.

Claim 22 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

the resistivity of the outermost conductive layer being in an inclusive range of 50
through 100 ohm*cm.

Claim 23 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

a resistance per axial length unit of the outermost conductive layer being in an
inclusive range of 5 through 50000 ohm/m.

Claim 24 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

a resistance per axial length unit of the outermost conductive layer being in an
inclusive range of 500 through 25000 ohm/m.

Claim 25 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

a resistance per axial length unit of the outermost conductive layer being in an
inclusive range of 2500 through 5000 ohm/m.

Claim 26 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

said outermost conductor including a base polymer and a carbon black,

a resistivity of the outermost conductive layer being set by

a type of the base polymer,

a type of the carbon black, and
a proportion of the carbon black relative to an entire formulation of said
outermost conductive layer.

Claim 27 (Previously Presented): An insulated conductor as claimed in claim 26,
wherein:

the base polymer comprises an ethylene butyl acrylate copolymer of EP-rubber.

Claim 28 (Previously Presented): An insulated conductor as claimed in claim 25,
wherein:

the outermost conductive layer being cross-linked by peroxide.

Claim 29 (Previously Presented): An insulated conductor as claimed in claim 26,
wherein:

the outermost conductive layer being cross-linked by peroxide.

Claim 30 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

an adhesion between the insulating layer and the outermost conductive layer being of
a same order of magnitude as an intrinsic strength of a material that forms said insulating
layer.

Claim 31 (Previously Presented): An insulated conductor as claimed in claim 19,
wherein:

the inner conductive layer, the insulating layer and the outermost conductive layer are extruded on the one or more strands.

Claim 32 (Previously Presented): An insulated conductor as claimed in claim 30, wherein:

the inner conductive layer, the insulating layer and the outermost conductive layer are applied through extrusion through a multilayer head.

Claim 33 (Previously Presented): An insulated conductor as claimed in claim 19, wherein:

the insulating layer being a crosslinked polyethylene, XLPE.

Claim 34 (Previously Presented): An insulated conductor as claimed in claim 19, wherein:

the insulating layer being at least one of ethylene propylene rubber and silicone rubber.

Claim 35 (Previously Presented): An insulated conductor as claimed in claim 19 wherein:

the insulating layer being a thermoplastic material from a set of LDPE, HDPE, PP, PB, and PMP.

Claim 36 (Currently Amended): An electric machine comprising:

an insulated conductor for a high-voltage winding, having

~~one or more~~ at least one uninsulated strand and a plurality of strands insulated from one another,

an inner conductive layer that surrounds and contacts said ~~one or more~~ plurality of insulated strands said at least one uninsulated strand,

an insulating layer that surrounds said inner conductive layer, and

an outermost conductive layer that surrounds said insulating layer, wherein:

a resistivity of the outermost conductive layer being in an inclusive range of 10 through 500 ohm*cm.

Claim 37 (Currently Amended): A rotating electrical machine comprising:

an insulated conductor for a high-voltage winding, having

~~one or more~~ at least one uninsulated strand and a plurality of strands insulated from one another,

an inner conductive layer that surrounds and contacts said ~~one or more~~ plurality of insulated strands said at least one uninsulated strand,

an insulating layer that surrounds said inner conductive layer, and

an outermost conductive layer that surrounds said insulating layer, wherein:

a resistivity of the outermost conductive layer being in an inclusive range of 10 through 500 ohm*cm.

Claim 38 (Canceled).